Paped Morch 1828 Inaugurul Essay Continued Bilions Fires For the digree of Doctors of medicine in the University of Tennsylvania Nathuniel M. Comer North Gurdina February 5. 1838.

For the degree of Lector of medicina reviewly of Temphania Sathunial W. Comer

Although from its frequery & distructivery fever has, in every age, altracted a large share of public attention, it is even in our day almost a terra inegnita. But a few years have paper since the first principles of the pathology of fever, were laid down. The very term I dispather implies on the part of our medical ancestors a total ignorance of that local origination of fever, now, through the lessed teachings of the profipor of the Braclice of Mickeine in the Muevarity of Pennsylvania, so generally conceded by american practetioners. At length is land the foundation of a philosophie system, & deductions from facts supersed the inference of facts from hypotheris. By this made of observing we are laught that Lever commonly commences in the Homach & from its multiplied saympathus affects many term the ramotest parts. The number of organs implicated morifies the aspect of the disease

now through The level levelung of the properties the Lindles of Michen un The Murinity of Tronglisme, so giverally scarcetil ly anon problemes. It length is load the pourdation lade superior the exposure of first from Supolini . By this made of chancey we are flownshit from to constitution appropria organs influence morphis he refuel of the decor

t as conducing to The same end may be aded "the period of life, the temperament of the body, the lone of the fibre, the kind of deet on which the individual has been previously nourished of the state of mind: When the deseased imprepious are made on the Stomach they are imported, generally, in the first place to the chylopoietic Niscera, particularly the the lever, as being connected with it not only ley associated function but also continuity of structure the necess membrane of the one pervising the entensive & numerous transfications of the dests of the other, must participate in any strong or delitinous impression I be extended Throughout it & thence to the heart & blood refide. The lungs do not so frequently suffer. Then the skin becomes involved if it is the next weakest point as is wineed by its dry, parched & burning character. The head also shares in the diseased action Lit up in the stomach, for a close connection exists between them, especially, between the muceous of the one

he from the hand of dista on which the advantable municans o reason peralisms of the deeds of the other, hand of a vinas light day, partie & balancy

and the arachnoid membrane of the other. They like radie from a centre do all the morbid phenomena proceed & either quickly & violently extend their striking influence, or more slowly & leniently according to the nature of the morbific cause, the strength of The constitution and the number of the organs, systems, or teffices implicated. The most prevalent from of Continued Fiver in the southern states, is the Common Billions Four commencing with The symptoms of Lynocha & succeeded by those of Syphus. Hence nosologists have designated it by the appettation of Lynochus, it being a combination of the two antecedent nuther participating in the truly inflammatery symptoms of the one of it does weist independent of the Theymain) nor in contagion in the other, which is one of its distinguishing features, but blinding them logether in a slight degree. Of continued fever the ancients admitted a great diversity of species, but the above division is sufficiently comprehensive. Continued fevers run their

defin judicie features, but bluding Them laster wa

course with no intermission, but a slight degree of remission in the morning & enascertation in the curring Take place daily & This Intermettent type accompanies all fevers in the early stages when arising from marsh mianna & none but the Ephenwa can be said to be continued, the small pose not being an exception. During the hot mouths inflammatory four is developed & the abdominal Vigeera suffer most, but in winter the Theymain harrofs the people thus bringing There to suffer at different seasons The maladies of the Tropies of northern lateludes . -Causes. To numerous, diversified, & diffusive are the sources of fever that all ages & conditions are subject to its attacks. The most usual causes are, margh miasma as we find it prevatent in palled al tileations. It sometimes occurs without the agency of miasma, elivated sections of country suffering by its visits. Cold, heat & moisture atternating, great exertions, nature of the climate are causes of this disease, but it is often

live to be continued the small pass not be divideoped to the wholemand Moseum hiller brugging there to suffer at different bearing mayor on an find it present in falled al the divided absolver of country different by its wents

confined in obscurity. Also exceptive heat acts as a mortio agent toceasions great disorder of the functions, at first diretly stemetating of enceting the system & speedily leaving it in a state of correspondent debility being Thus rendered leable to be acted on by the exerting causes. The viciling causes are the same as in other ferry. Errors in eating & drinking, violent exercise, improper exposure 4 particularly to the sun or night air or the Jogs succeeding to hot days, inappropriate or partial clothing or wit cloths especially when combined with folique, fasting severe executions, sudden changes of weather, too close are application to sterdy or giving way to some depressing passion He. There causes produce Narious modifications of the disease & with greater extendy at different times, when influenced by season, premiarity of situation, temperament & condition of body . -Tymptoms. The approach of this firer is marked by languer, heavings, anxiety, sighing, listlessup, youring attended by attempte sensations of heat & lold, pain in

paret lang when influenced by in

The back of limbs of even regors with all the phenomena of an intermetted paronism. The sense of heat & its spets after a tille time become less violent & are alternated with flushings of at last going off allogether the fever become formed accompanied with great pain in the head & back, increased heat & Ingrife, over the whole body, nauges & vomiting of bilious matter, great thirst, fund tongue, loss of appetite. heat, distintion, pain & tunderrups over the stomochs, hot & fetil breath, respiration quick, full throught frequent pedos, determination to the head sometimes deleview, or sollow skin & often types also. Sometimes when the attack is violent there is delereum thed eye. In the commencement the bourds are constituted sometimes bile is brought away by purging or the stook are serous. The wine is dark coloured & secarse. In The 24 hours particularly in the morning there is an absternent of the fibrile action & generally a slight persperation of short continuous of Then the paronism recurs with more rehermence, but continuing longer than the fight day, the well forces become reduced, their dry or colliquation

persperation, with deficient usinary secretion. We have also a dark incrusted tougue. Diagnosis The season of the year, Nomiting of bilious matter & The sollowings of The skin, also "The constitution of habits of the patient, The nature of the prodisposing & exciting causes, will aid us in the diagnosis. Trognosis. There are certain symptoms which indicate a favourable or an unfavourable Termination of the disease, yet there are modified and influenced by The " age thatily of the patient, the corcumstances in which he is placed & the period of time which has elapsed before medical treatment is resorted to . If newsin inflammatory executement, as the red Vlurged face, Throbing, quick, full, tenge or hard pulse, intotorance of light with virtego or early steeper & delinum," should continue in spite of the remedies for serinal days, The went may be doubtful, but if to these be added picking at the bed cloths, starting of the lendons unduntary discharges by stool & wine & herough. I will then be almost certainly fatal. But on the

want may be doubtful, but if to there he added

contrary if There is a subsidence of febrile movement to other symptoms moderate There is a lenderey to a crisis which is marked by a notural skin, moist frelance of temperate, pulse becoming soft, slow & natural, tongue clean with Expation of thirst, alvine discharges dark, tary & filed or of a natural colour, the wrine depositing a laterations sectiment, scals appearing about the mouth & above all the enjoyment of the intellectual faculties. The symptoms presenting we may expect a happy termination. Return of sleep is one of the most favourable symptoms. Sometimes the fever teaminates without any such distinct manifestations & without increased wacustions, the change is slow of gradual & gently lapers off. Diputions. The appearances on dispection in Those who die of fever sufficiently point out that danger is to be chiefly apprehended from the occurrence of inflamation & that against such a state The measury of the physician, are to les directed, relieve the local affections of the general disease will be miligated. The same morbid phenomena appear as

hick is marked by a natural their most present

in recent cases of intermittent fever. The mucous coal of The stomach about the pylorus is intensely phlogored of Streaks, of inflamation, appear on its surface & also in the duodenum. The liver rarely weaper the inflamation & is often enlarged & sometimes bloated with heavy longistion 4 The gall bladder filled with vitealed bile. Sometimes the aplum is ingorged & its perstoned covering inflamed. The arachnoid membrane is nearly always inflamed & the refuls of the cerebral substance injected. And cometimes the There of the spind marrow, is inflamed & effusions & introverations are after sun The lungs are seldom offseted or has been mentioned. Tathology. The pathology of this disease appears probably to lossist in irritation of the news of the necess lost of The stomach, which irritation continuing must induce inflamation, This inflammation either from sympathy or continuely of structure wolves The general system producing uttimately if not wrested extensive disorgan - uzation & death. There is always a tindency in fever to a spontaneous crisis on particular days. Appointes

he so one allem expelled on her their meeting. tu derivado pelicio intestito, continuone cond to a dentencia lovisi on forbular days I promote

called these judgement days from the notion that nature on these occasions pronounced the fate of the patent. They are The 3.7. 9. 11. 14. 17. 20,000 Hoome extend There to The 27. 35 or 42. reprove these days There is a Tendency to a diminution of the disease to correspondent execurbation on the intermediate ones: This was more porticularly The case when stippocrates wirty his practice being elender of the climate mild of avound by The habity of the Green people. But now by wild deviations from nature, sudden changes of weather, & the active Instrument employed, That linding to control solution is prevented. The progress of the Disease is often everted by the employment of copious bleeding active purging, imilies, blisters, & the revolutionary hower of moreury. Let were under these eventures all ferres of measurates origin retain a critical tendency & upon these days we should lend nature our greatest and to bring the disease to solution. Treatment. The stage at which we see the pateent influences

a on their sugar providence the fate of the practice being stends the derivet mile of acourt by he habily of the brewer people. But now by will devotions from rature, ourden thango of waster, I the selver brokened inflying That tending to intend relation is forward the property of the brange or glass amounted by the unplayment of topsand oblinding hours of neverny. Let seem under their encountains all found of meanance onegen below a colored twoberey of upon their days our should lend nature our grated and to bring the bloom to colution Goodward The stage at which we see the potentiafle was

The breatment. Bung called in the early stage, the object is to overcome the nacent impression before it becomes deeply rooted & forms itself into open fever. If on examining the patient we find gastrie irritation, head ache & slight disturbance of the circulation, we first evacuate the prima via by an contic which symptoms demanding it, may be repeated, apply beches to the head give cold elementeent drinks andulated employ stimulating pedeleveum making at the same time cold applications to the head & give The neutral miseture. But the disease being formed, The lanest must be tusorled to. Her have at this time a strong pulse, hot skin, ditumination of blood to the brain or other important organs. To be production of benefit so much blood as to reduce the excelle-- ment & meate a surjete imprefrior on the disease, should be detracted To effect this it if need any to blad regardless of quantity until the object is altouned By bleeding thus pruly at once the structure of the

organ is preserved the disease subverted. At This very junction employ topical bleeding from The organ mostly suffing, as from the head, stomach He This may be effected wither by lucker or cups, the benefits resulling we frequently very great. Large accumulations of bile, sorder, feers, or any other morbid substance in the stomach or alimentary cand demand evacuating medicines especially emilies of Fartanger Antimony in the first instance if no symptom contra indicate its use, as The Tongue florid on The point trages & covered in the middle with a white coat as if milk had been swallowed, tenderups of the pit of the stomach retching & vomiting of glory matter, These being absent the opporation of the antimony, will be allended with the happiest results. When vomiting can not be employed from prequence or peculiarity of constitu-- tion or after emities have been employed, we may Then regard to purgatives in different Combinations The best is the Froto chloride of mercury with Lalaps,

Pulvi Rhie, Cambogia or Claterium. They apperate in less quantities & more linearity & effectually Than when taken separately. Ibut the Proto chloride of mereury in doses of from 5 to 10 grains, every hour two or three hours until it commences oppositing 4 Then promote its action by The sulphate of magnesia or deum Ricine, is better than The drastee articles. This practice should be continued until we effect the complete discharge of the morbid secretions of the Stomach & bouch, as evidence of this we have dark, tary & felie stools which is truly a morbid secretion I not bile as has been thought. The more dark, Tany & filed These discharges are The better. The liver The commencement is executed & we have an increased secretion of bele, but almost always this is followed by a state of correspondent collaps & loopor & from the secretary action of this viscus being either impaired or suspended su have depraved secretions or the sallow Men & perhaps eye. When derangements of function will

have been corrected by the preceding practice if then enesting. If occurring after this the Proto chloride of mercury similarly administered & worked off by oleum Recion is what will be demanded to restore it. To keep the bowls in a soluble state the imployment of the saline purgatives may be resorted to with advantage, The effect, of which, are increased by the addition of about a grain of Vartarized Antimony to the owner. We regort to enemate ather to promote the opposation of other medicines or where from the writebility of the stomach we can not administer them by the mouth. Enemate I think, after the bourds have been thorough evacuated by purgative medicines, might be more frequently regoted to Than at present, with breeded advantage. They may lousist of any mucilage & oil or whicken water with a small portion of Tulus Rhei, & molaper or soup, a tittle common salt being added or any thing, that will gently stimulate the intestine. To reduce topical inflammation, the local detraction of blood by cups &

equations; it occurred after the Morte chloride of

beeches, is employed of at the some time we call to our aid other evacuating means, as purging or if The general system becomes involved we employ vine section. To afirst in reducing fibrile action cold applications to The surface, are called for then applications should consist of cold water or riou water or what is bitter, gold water Viringar. As being the most agreeable to the patient bless hazardous in its effects, There applications should be made by sponging rather Than by aspersion or offusion. The indications for the imployment of the shouge, are a tolerably vegerous pulse of the skin pretermaturally hold day. Used under such circumstances it calms irrelation composes to rest, & induer sleep. In high fever & at The same, The elomach & bouls phlogoged of the skin hot, the best effects result from cold water injections. Sereeled in other conditions Than Those pointed out they are not only unless but permetions. It this moment refrigerents are advantageously employed, which by reducing Nas--cular fore not infrequently produce belanation of

the surface & perspiration. To accomplish This we would employ either the netrous poudor or a solution of the sulphate of magnesia with event spirity of stitue to dow to There a small quantity of Tarlarezed autimany. I would use then in the following proportions pulphale of magnesia half an owner, sweet spirit of titre half an owner, Lasterized Automony tero grows, water eight owners, Ion half a table sporm full every how or There or oflener of symptoms demand I. This I have found to answer very well. By The consument offen - ration of These medicines the excitement of the expline being reduced, Diaphonlies may be now advantagious, resorted to. We should not resort to deapphorities in Bilious Fur until inflammatory & vascular action is reduced by the remeders above mentioned. By prematurely resorting to dismulants or disphonties, or depleting too spartingly in The commencement the fewer is convirted into a Typhoid Four or runs a more (motracted & dangerous Course. After the aystem has

ught ourses low half a table spoon full way how or

been prepared for Their reception They may not only miligate but completely wrest the fever the skin becoming relaxed the inference is plain that nature is about to succeed in bringing the denase to a consis I should be apriled by artificial means. Now disphorting are demanded & of These the Autimoreal, by general authority are placed at the head of the tist. Of the preparations of autimony the Fastanized Antimony is preporable. The best effects of this medicine are allained when it least disturbs the stomach, Though high authorities delan otherwise. To procure the disined effect of Vartanged Antimony, is difficult as we can not always regulate the dose from the liveuristance of the stomach as regards irritation. The usual dose is The 1/2, 1/10 or 1/4 of a grain every two or three hours. Antimonials sum to popy a specific antifibrile quality independently of their Eraphortie property. It from the imitibility of the stomach the antimoneals are rejected we then should resort to other medicines

effect of Vertanage Listenson, is defectly as we can a the park or to ye praise being two or three to

left offering to the stomach & of these the efferiseed brought, or ninted mixture, is best or spiritus minderese ausuurs very will. Should external applecations become necessary the response bath from pouring vinegar on heated bricks or heated brick Themselves being very retentive of heat or other applications of a similar nature, will produce profuge perspiration but Then are not generally ad -minible. At this time after the system has been reduced sufficiently, the Vinan progressing blisters, with de-- eided bunget, may be had recover to, They are to be applied alternately to the feet & upper entrumeties to derive full advantage from their use, or they may be demanded on both at the same time. At this stage of The Dinane by some the bart has been highly extolled & by others reprobated It is now generally and -mitted that the bank is inadmissible except where there is a decided tendency in the fever to intermet vever here we must have a moist tongen & relaxed surface independent of any central affection. By Docto Holcomb,

bearing full orderedown from their uses, or they may street of The Versan by some the bank has been hoply entoteed of by other reprotection It is now generally and

the Sulphate of Quinine is given in all stages, with it is said, Secided advantage, were where the akin is dry & it is also said, is followed generally by persperation I conduct to acritical solution. Not yet having arrested The foragas of the Issue we regort to mercury which is generally effective if the eighten can be completely affected by it. But not unfrequently the pateent dies before we can affect the system it being difficult to get the medicine to art. We should avail ourselves of the Different methods of introducing it into the system, particularly by inunction in com-- siderable quantities. In The lowinge of the Disease affections were, which it is necessary that we should notice " A determination to the head with Iderium or a strong tendency to it; The remedies are, cold apple - cations to the for head, vinegart water, seed water, Topical bleeding by cups or beaches or the temporal artery may be opined, the leaches & cups prol being at command. While lold is applying to the head, hot

being Popperth to get himselsen to orlar his should inducted quantities and the townse of the Russer

applications, as hot water He should at the same time be made to The voctumities. There proving implicient a blister should be applied to the back of the neck I on its failing to offord relief the head may be nearly lovered with one which no symptom forbidding it should be permitted to remain on 24 hours . Great rest-- lipsuf may occur during the first stage of the attack or afterwards. If accompanied with increased temperature The skin dry that, the loss of blood is indicated, sponying The surface with cold water & immersing the army in it affords in many instances signal benefits. Noffmans Anodyne Liquor or The Camphorated emulsion should be unployed. Decening after this opicem becomes ad-- nupible of dist in the form of the Black Irop, opiate enomate where opium disagress with the stomach, may be substituted. A vitiated state of the alimentary canal in prequently productive of longiderable theret which is to be relieved by purpotions, cleaning the touque, lips, + gums with Lime given or vinegar charcal &

ly byum with dime just nothinger charal &

water & prequelly ring the mouth with told water I minute portion of acid Trinks. If Dependent on deficient secretion we may unploy the Froto chlorids of mercury in Jases of 1/4 of a grim every & or 4 hours. There is usually to be be observed Throughout the propos of the peror, much drysufs of the longue & fauces & entrame Thiest. Here the Fraction of the Physicians of antiquety differed much, some gave drink fruly while others prohibited it allogither it medium practice is that which should be pursued, that is mether induce nauna or Nomiting by deleging the Stomach or enate arrenty by beforing it which would increase The Isreare. Limon tied or Vinegar & water, apple toast or tamerind water, accoulated bardey water, I the infusion of Liquorier root may be employed with advantage. A small portion of lommon water if the temperature be not too low, should not be refused. Warm berrages are frequently effective in allaying Thirst where The above remides have failed.

of electricary, on been of 1/4 of a from when I at bours Here a unally to so be observed throughout the graps while stray perfection of recognition it medie

"Gastrie destrys, Nauna & Nomiting, may depund on tile or irrititity of the stomach, or what of time happines phloge - ses of that organ, Accumulations of belle may be known to weist should there be believes evacuations. This being the lase we present wither an emelie or a purge of Thats chloride of mireury worked off by magnena or the Rulphale of magnisse. To quiet imitability a number of remedies have been employed. The efferweent drought, Total mintere, Lime water of milk, mint or clove tea & Froto chloride of mureury in small & repeated dones as 1/4 of a grain with 1/4 of a grain of opium secasionally added would be found ser wierable. An old spiero fill sometimes acts promptly. In spirate enemant should also be deneted. Syperonous with The administration of the above remedies, exclemal applications, as circumstances may require, may be made as clove formentations, clother and of hot spirit, applied to the Monach & removed as often as they become cold, stimulating pediluvirem made so by musterd, surepisment to the

This feeling the Courses smeeth into on is close toxicalations, clother out of hat apoints, appliced to the he & armond on after at they become cold the the

ancles, or a blister to the stomack. Thould there be phlogoris of the stomach which is not uncommon, every thing stimulating should be withheld . When There is a sure of internal heat, tenderuf of the Epigastorum, Touque florid on the idges & left & presenting The appearance in its centre of milk having been swallowed, hard & corded pulse we know phlogoni inists. Local Deptetion is here indispunsible which is effected by the application of luckey over The phlogosed part. Cold applications should also be made to The same hart & frequently repeated. There meaning aided by the inhibition of cold mucilequions drinks agreeably acidulated with Lomon guice well generally succeed in removing the gastree phlo--gois. Conjection or inflammations of the starmarks Lever may be the coursquere of a phlogond blomach For the releef of these local affections local remedies are most appropriate, as bucking & other depleting measures. Suring the progress of the disease little or

no nourishment is admissible, a small quantity of Chicken or barley water with the flinds necessarily taken is as much as well be required. In the communesment of low valuences we should direct the farmacerous articles, as arrow root, rago, rice, Hb. After a few days, eggs slightly cooked, oysters or chicken may be allowed. Convaluent patients should eal little the ones & as is usually Directed frequently, tent not so prequently that the stomach by the aggregate shall be fatigued or opposed . I hould the bouls become constituted some gentle puryative as The deum Rieini may be directed. Considerense being slow & The patient fuble Tonies as the Elisies Netred or The bark or perhaps These two preserved together would be the better presemptions.

become toughtated some gentle puryation Steemed wine may in liveled to site